

***APPENDIX I: METALS DATA IN 1995***

PHILLIP J. SHEPHERD  
SECRETARY



BRERETON C. JONES  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601

July 19, 1995

Division of Environmental Services  
Report Number: A02-15514  
Sample Number: 9501616

To: Division of Water  
Frankfort Office Park  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: Sam Lester

County: Jefferson

Facility:

Collected by: Dave Leist

Date: 05/17/95 Time: 0910

Delivered by: Dave Leist

Date: 05/19/95 Time: 1500

Received by: Polly Baker

Date: 05/19/95 Time: 1500

Sample Matrix: Water

Collection Method: Grab

Sample Identification: Chenoweth Run at Watterson Trail

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Arsenic	0.005 mg/L
Barium	0.078 mg/L
Cadmium	ND @ 0.001 mg/L
Chromium	0.007 mg/L
Copper	0.009 mg/L
Iron	10.3 mg/L
Lead	0.023 mg/L
Manganese	0.760 mg/L
Mercury	ND @ 0.0001 mg/L
Nickel	0.022 mg/L
Selenium	ND @ 0.002 mg/L
Silver	ND @ 0.001 mg/L
Zinc	0.050 mg/L

ND = Not Detected

This report has been prepared and reviewed by personnel within the Division of Environmental Services. It has been approved for release.

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William E. Davis, Director



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DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601

July 19, 1995

Division of Environmental Services  
Report Number: A02-15515  
Sample Number: 9501617

To: Division of Water  
Frankfort Office Park  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: Sam Lester

County: Jefferson

Facility:

Collected by: Dave Leist

Date: 05/17/95 Time: 1020

Delivered by: Dave Leist

Date: 05/19/95 Time: 1500

Received by: Polly Baker

Date: 05/19/95 Time: 1500

Sample Matrix: Water

Collection Method: Grab

Sample Identification: STP Old Taylorsville Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Arsenic	ND @ 0.002 mg/L
Barium	0.064 mg/L
Cadmium	ND @ 0.001 mg/L
Chromium	0.002 mg/L
Copper	0.008 mg/L
Iron	0.257 mg/L
Lead	0.003 mg/L
Manganese	0.070 mg/L
Mercury	ND @ 0.0001 mg/L
Nickel	0.012 mg/L
Selenium	ND @ 0.002 mg/L
Silver	ND @ 0.001 mg/L
Zinc	0.028 mg/L

ND = Not Detected

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A handwritten signature in cursive script, appearing to read "William E. Davis".

William E. Davis, Director



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NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601  
July 19, 1995

Division of Environmental Services  
Report Number: A02-15516  
Sample Number: 9501618

To: Division of Water  
Frankfort Office Park  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: Sam Lester

County: Jefferson

Facility:

Collected by: Dave Leist

Date: 05/17/95 Time: 1205

Delivered by: Dave Leist

Date: 05/19/95 Time: 1500

Received by: Polly Baker

Date: 05/19/95 Time: 1500

Sample Matrix: Water

Collection Method: Grab

Sample Identification: Chenoweth Run at Taylorsville Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

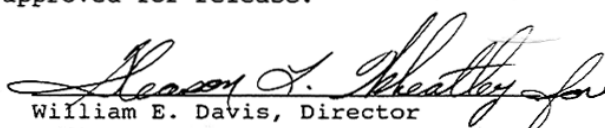
CONCENTRATION

Arsenic	0.004 mg/L
Barium	0.070 mg/L
Cadmium	ND @ 0.001 mg/L
Chromium	0.005 mg/L
Copper	0.010 mg/L
Iron	9.39 mg/L
Lead	0.016 mg/L
Manganese	0.538 mg/L
Mercury	ND @ 0.0001 mg/L
Nickel	0.013 mg/L
Selenium	ND @ 0.002 mg/L
Silver	ND @ 0.001 mg/L
Zinc	0.038 mg/L

ND = Not Detected

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DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601  
July 19, 1995

Division of Environmental Services  
Report Number: A02-15517  
Sample Number: 9501619

To: Division of Water  
Frankfort Office Park  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: Sam Lester

County: Jefferson

Facility:

Collected by: Dave Leist

Date: 05/17/95 Time: 1325

Delivered by: Dave Leist

Date: 05/19/95 Time: 1500

Received by: Polly Baker

Date: 05/19/95 Time: 1500

Sample Matrix: Water

Collection Method: Grab

Sample Identification: Chenoweth Run at Easum Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Arsenic	0.004 mg/L
Barium	0.059 mg/L
Cadmium	ND @ 0.001 mg/L
Chromium	0.005 mg/L
Copper	0.007 mg/L
Iron	6.94 mg/L
Lead	0.013 mg/L
Manganese	0.391 mg/L
Mercury	ND @ 0.0001 mg/L
Nickel	0.008 mg/L
Selenium	ND @ 0.002 mg/L
Silver	ND @ 0.001 mg/L
Zinc	0.029 mg/L

ND = Not Detected

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DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601

July 19, 1995

Division of Environmental Services

Report Number: A02-15518

Sample Number: 9501620

To: Division of Water  
Frankfort Office Park  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: Sam Lester

County: Jefferson

Facility:

Collected by: Dave Leist

Date: 05/17/95 Time: 1500

Delivered by: Dave Leist

Date: 05/19/95 Time: 1500

Received by: Polly Baker

Date: 05/19/95 Time: 1500

Sample Matrix: Water

Collection Method: Grab

Sample Identification: Chenoweth Run at Seatonville Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Arsenic	0.004 mg/L
Barium	0.042 mg/L
Cadmium	ND @ 0.001 mg/L
Chromium	0.004 mg/L
Copper	0.005 mg/L
Iron	5.18 mg/L
Lead	0.008 mg/L
Manganese	0.274 mg/L
Mercury	ND @ 0.0001 mg/L
Nickel	0.009 mg/L
Selenium	ND @ 0.002 mg/L
Silver	ND @ 0.001 mg/L
Zinc	0.019 mg/L

ND = Not Detected

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DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601  
August 13, 1995

Division of Environmental Services

Report Number: A37-00005

Sample Number: 9502222

To: Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: David Leist

County: Jefferson

Collected by: David Leist

Delivered by: Skip Call

Received by: Polly Baker

Sample Matrix: Water

Facility:

Date: 07/11/95 Time: 0840

Date: 07/12/95 Time: 0949

Date: 07/12/95 Time: 0949

Collection Method: Grab

Sample Identification: CR5 - Chenoweth Run at Waterson Trail

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Aluminum	0.131 mg/L
Antimony	ND @ 0.028 mg/L
Barium	0.079 mg/L
Beryllium	ND @ 0.001 mg/L
Cadmium	ND @ 0.006 mg/L
Calcium	74.5 mg/L
Chromium	ND @ 0.016 mg/L
Cobalt	ND @ 0.013 mg/L
Copper	ND @ 0.005 mg/L
Iron	0.249 mg/L
Magnesium	31.4 mg/L
Manganese	0.074 mg/L
Molybdenum	ND @ 0.009 mg/L
Nickel	ND @ 0.011 mg/L
Potassium	2.31 mg/L
Silver	ND @ 0.002 mg/L
Sodium	25.2 mg/L
Strontium	0.128 mg/L
Thallium	ND @ 0.048 mg/L
Tin	ND @ 0.015 mg/L
Vanadium	ND @ 0.004 mg/L
Zinc	0.010 mg/L
Arsenic	ND @ 0.002 mg/L
Mercury	ND @ 0.0001 mg/L



August 13, 1995  
Report Number: A37-00005  
Page 2 of 2

TOTAL CONSTITUENTS

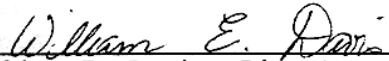
Selenium

CONCENTRATION

ND @ 0.002 mg/L

ND = Not Detected

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William E. Davis, Director  
Division of Environmental Services



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DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601

Permit Review Branch

August 13, 1995

Division of Environmental Services  
Report Number: A37-00004  
Sample Number: 9502221

To: Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: David Leist

County: Jefferson

Facility:

Collected by: David Leist

Date: 07/11/95 Time: 0940

Delivered by: Skip Call

Date: 07/12/95 Time: 0949

Received by: Polly Baker

Date: 07/12/95 Time: 0949

Sample Matrix: Water

Collection Method: Grab

Sample Identification: CR4 - Chenoweth Run at J-Town STP

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Aluminum	ND @ 0.056 mg/L
Antimony	ND @ 0.028 mg/L
Barium	0.026 mg/L
Beryllium	ND @ 0.001 mg/L
Cadmium	ND @ 0.006 mg/L
Calcium	49.7 mg/L
Chromium	ND @ 0.016 mg/L
Cobalt	ND @ 0.013 mg/L
Copper	0.017 mg/L
Iron	0.047 mg/L
Magnesium	17.5 mg/L
Manganese	0.008 mg/L
Molybdenum	0.011 mg/L
Nickel	ND @ 0.011 mg/L
Potassium	11.4 mg/L
Silver	ND @ 0.002 mg/L
Sodium	75.3 mg/L
Strontium	0.223 mg/L
Thallium	ND @ 0.048 mg/L
Tin	ND @ 0.015 mg/L
Vanadium	ND @ 0.004 mg/L
Zinc	0.063 mg/L
Arsenic	ND @ 0.002 mg/L
Mercury	ND @ 0.0001 mg/L



August 13, 1995  
Report Number: A37-00004  
Page 2 of 2



TOTAL CONSTITUENTS  
Selenium

CONCENTRATION  
ND @ 0.002 mg/L

ND = Not Detected

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Division of Environmental Services

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Permit Review Branch

August 13, 1995

Division of Environmental Services  
Report Number: A37-00003  
Sample Number: 9502220

To: Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: David Leist

County: Jefferson

Collected by: David Leist

Delivered by: Skip Call

Received by: Polly Baker

Sample Matrix: Water

Facility:

Date: 07/11/95 Time: 1045

Date: 07/12/95 Time: 0949

Date: 07/12/95 Time: 0949

Collection Method: Grab

Sample Identification: CR3 - Chenoweth Run at Taylorsville Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Aluminum	0.088 mg/L
Antimony	ND @ 0.028 mg/L
Barium	0.035 mg/L
Beryllium	ND @ 0.001 mg/L
Cadmium	ND @ 0.006 mg/L
Calcium	52.5 mg/L
Chromium	ND @ 0.016 mg/L
Cobalt	ND @ 0.013 mg/L
Copper	0.015 mg/L
Iron	0.158 mg/L
Magnesium	19.5 mg/L
Manganese	0.025 mg/L
Molybdenum	0.013 mg/L
Nickel	ND @ 0.011 mg/L
Potassium	9.75 mg/L
Silver	ND @ 0.002 mg/L
Sodium	65.0 mg/L
Strontium	0.202 mg/L
Thallium	ND @ 0.048 mg/L
Tin	ND @ 0.015 mg/L
Vanadium	ND @ 0.004 mg/L
Zinc	0.056 mg/L
Arsenic	ND @ 0.002 mg/L
Mercury	ND @ 0.0001 mg/L



August 13, 1995  
Report Number: A37-00003  
Page 2 of 2

**TOTAL CONSTITUENTS**

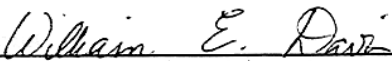
Selenium

**CONCENTRATION**

ND @ 0.002 mg/L

ND = Not Detected

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\_\_\_\_\_  
William E. Davis, Director  
Division of Environmental Services

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DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
DIVISION OF ENVIRONMENTAL SERVICES  
100 SOWER BOULEVARD  
SUITE 104  
FRANKFORT, KY 40601

Permit Review Branch

August 13, 1995

Division of Environmental Services

Report Number: A37-00002

Sample Number: 9502219

To: Division of Water  
14 Reilly Road  
Frankfort, Kentucky 40601

Re: Chenoweth Run

Attn: David Leist

County: Jefferson

Facility:

Collected by: David Leist

Date: 07/11/95 Time: 1135

Delivered by: Skip Call

Date: 07/12/95 Time: 0949

Received by: Polly Baker

Date: 07/12/95 Time: 0949

Sample Matrix: Water

Collection Method: Grab

Sample Identification: CR2 - Chenoweth Run at Easum Road

REPORT OF ANALYSIS

TOTAL CONSTITUENTS

CONCENTRATION

Aluminum	0.075 mg/L
Antimony	ND @ 0.028 mg/L
Barium	0.047 mg/L
Beryllium	0.001 mg/L
Cadmium	ND @ 0.006 mg/L
Calcium	55.5 mg/L
Chromium	ND @ 0.016 mg/L
Cobalt	ND @ 0.013 mg/L
Copper	0.011 mg/L
Iron	0.128 mg/L
Magnesium	21.7 mg/L
Manganese	0.013 mg/L
Molybdenum	0.009 mg/L
Nickel	ND @ 0.011 mg/L
Potassium	8.02 mg/L
Silver	ND @ 0.002 mg/L
Sodium	55.7 mg/L
Strontium	0.196 mg/L
Thallium	ND @ 0.048 mg/L
Tin	ND @ 0.015 mg/L
Vanadium	ND @ 0.004 mg/L
Zinc	0.035 mg/L
Arsenic	ND @ 0.002 mg/L
Mercury	ND @ 0.0001 mg/L



August 13, 1995  
Report Number: A37-00002  
Page 2 of 2

TOTAL CONSTITUENTS  
Selenium

CONCENTRATION  
ND @ 0.002 mg/L

ND = Not Detected

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\_\_\_\_\_  
William E. Davis, Director  
Division of Environmental Services